

A modern glass-walled building with several trees in front of it, all under a blue sky with light clouds. The entire image has a blue color overlay.

NISSHA

NISSHA PMX TECHNOLOGIES

Company Presentation
04.2024

Company Outline

NISSHA



Name	Nissha Co., Ltd.
Global Headquarters	3 Mibu Hanai-cho, Nakagyo-ku, Kyoto 604-8551, Japan
Chairman of the Board, President and CEO	Junya Suzuki
Founded	October 6, 1929
Established	December 28, 1946
Capital	¥12,119.79 million
Employees	5,302 *as of the end of June 2023
Business outline	Nissha Group is developing 3 businesses of Industrial Materials, Devices and Medical Technologies, and other businesses. At the same time, we are promoting the development of new businesses. >For more detail of our business, please check this link .
Consolidated Subsidiaries	63



Establishment

1929



Employees

5,302 (Nissha Group)

*as of the end of June 2023



Nissha Group

63

*Overseas 34



Net Sales (Consolidated)

193,963 Millions of yen

*for FY2022.12

Target Markets and 6 Core Technologies

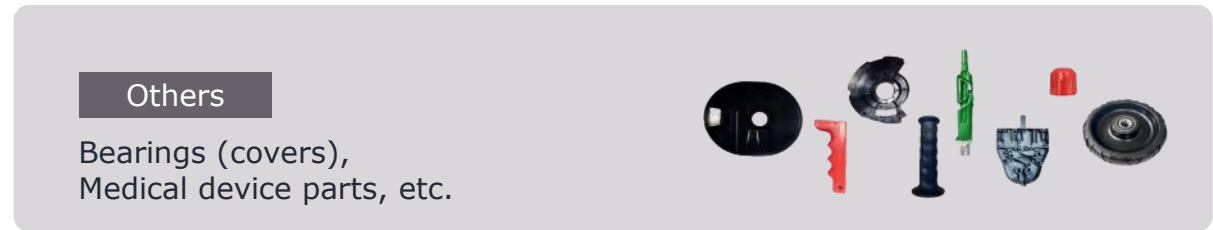
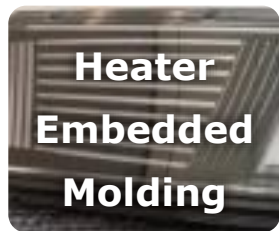
Nissha provides products and services that meet market needs by utilizing Core Technologies.



Product Lineup

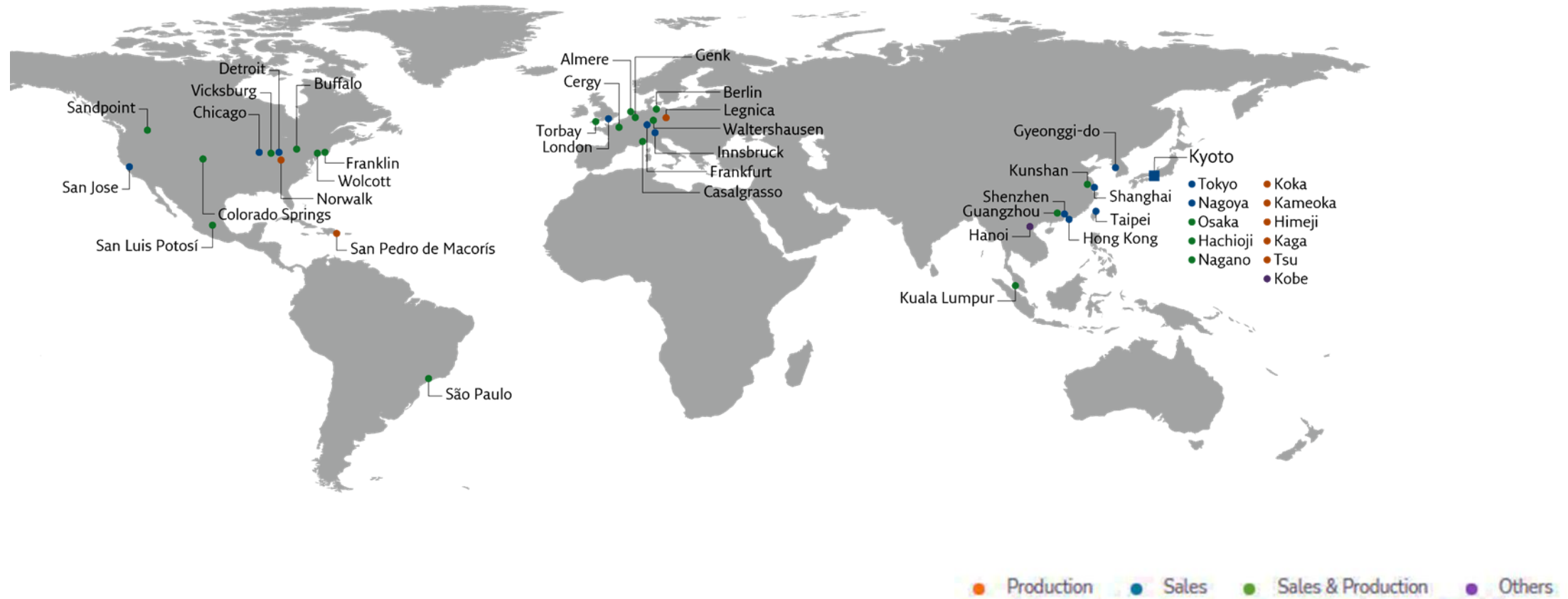


NISSHA SurfaceWorks



Nissha Group

Nissha has 15 bases in Japan, including Global Headquarters in Kyoto, and 34 bases in other countries.

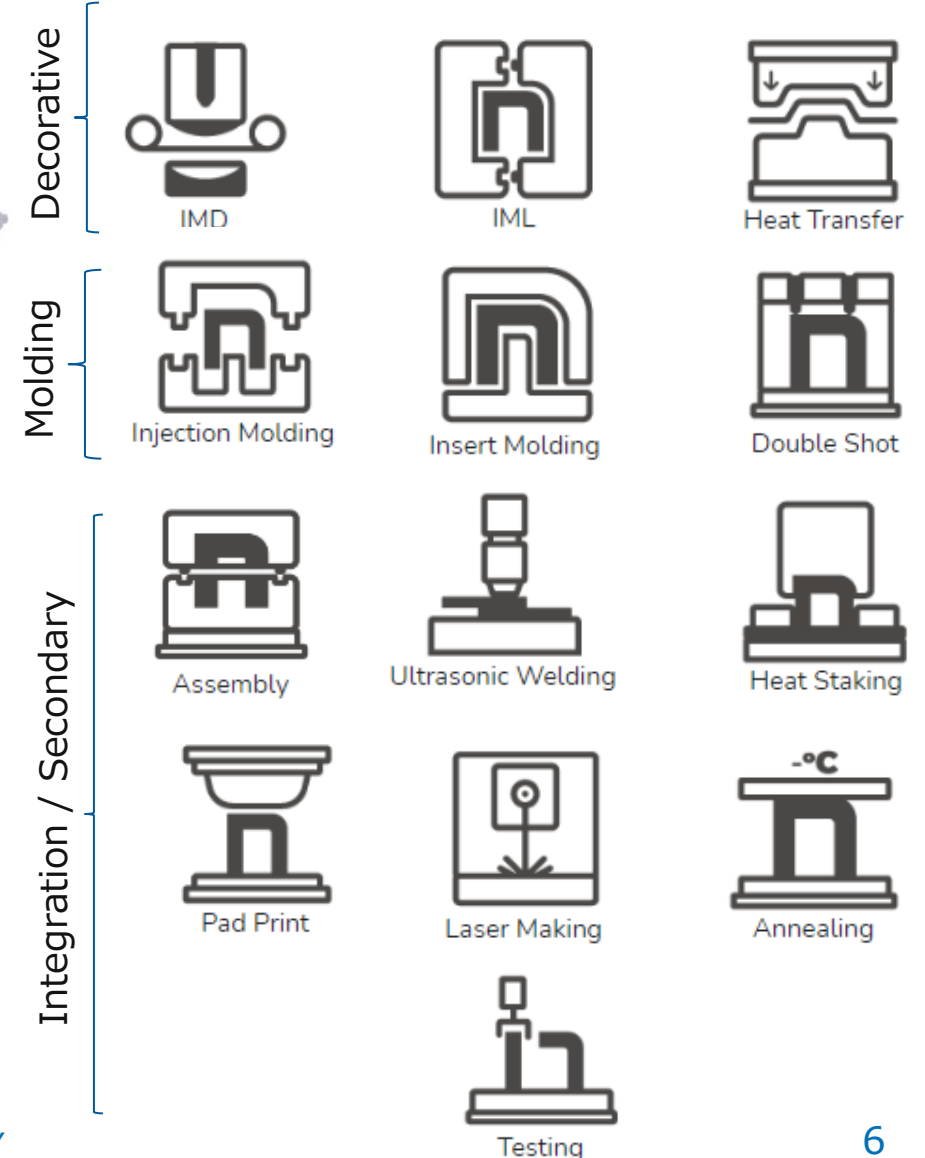


Nissha PMX Technologies S.A. de C.V.

Nissha has Global Molding sites (8)



Manufacturing Capabilities



Key Facts

- Manufacturing Location: San Luis Potosí, SLP México
- Founded in 2005
- Facility Total 9,700 m²
- Molding Capabilities:
 - Rotary Injection Molding Machines 80 – 300 Ton
 - Horizontal Injection Molding Machines: 40 ton –1,600Ton
- On site Metrology Lab
- On site Tooling Shop: maintenance, Engineering changes
- Engineering: México, Japan, USA
- Industries: Mobility, Appliance, Industrial



Customers

Mobility



Appliance



Industrial



Appliance - Applications

Washers



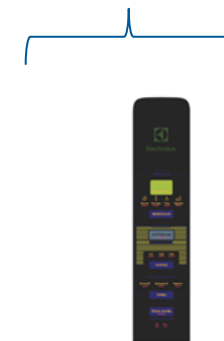
Dryers



Dishwasher



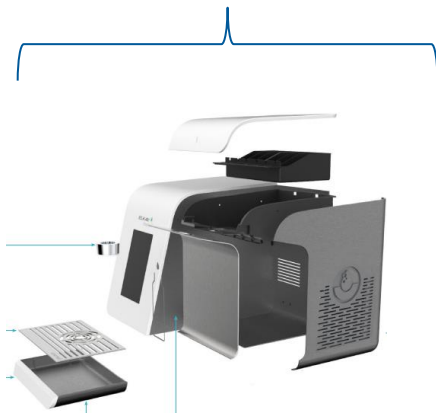
Refrigerators



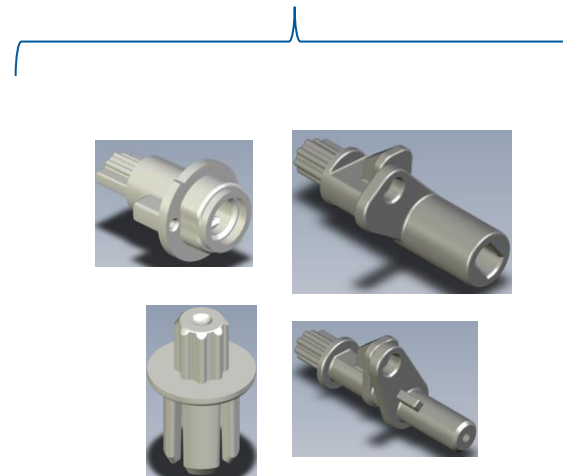
Consoles, Fascias, Caps, Techbox, Panels

Appliance - Applications

Beverage
Dispenser



Air Conditioner



Audio Panel



Mobility – End Product Applications

End Product Application:

- Functional
- Decorative

Sunroof



Instrument Panel



EV Charging



Lighting



Sunvisor



HVAC Module



HVAC Control Unit



ECU's



Combination & Wiper Switch



Wiper System



Headliners



Gasoline Pump



Cooling fan motors



Seatbelt



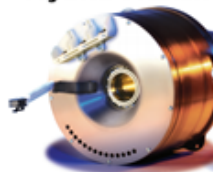
Antenna



Alternators



Hybrid Transmission



Door check



Door lock



Door Control



External Mirror



Evaporative Leak check module



Mobility – Component examples

Functional and **Decorative** Molded/Value added components:

IMD Panel, Covers, Connectors, Terminal Assembly, Sunroof Large Size, Housings, Class A, Pad Print, 2 shot, Flange, Reservoirs, Housings, Brackets, Terminal Assembly, Frames, Clips, ECUs.



Functional / injection molding

Large Tonnage

Nissha PMX Technologies offers support to our customers thru our large tonnage machines (800 – 1600 Ton).



Application examples:
Mobility Sunroof frame large components

Complex Geometry

We are capable to work with complex geometry designs, control of critical characteristics.



Application examples:
Housings components for Door locks,
Wiper Systems for Mobility.

Functional / injection molding

Interior Parts

Familiar with Decorative requirements on the Appliance and Mobility industry.

We have wide experience on decorative, interior, Class A components that are visible to end user.



Application examples:
Interior vehicle levers with pad print.
Interior Headliner covers. Seat belt covers. IMD Fascias for instrument panel.

Engineering Resins

Injection Molding of complex / engineering resins such as POM -acetal-, Nylons, FPP (Polypro) with high Glass Fiber content.

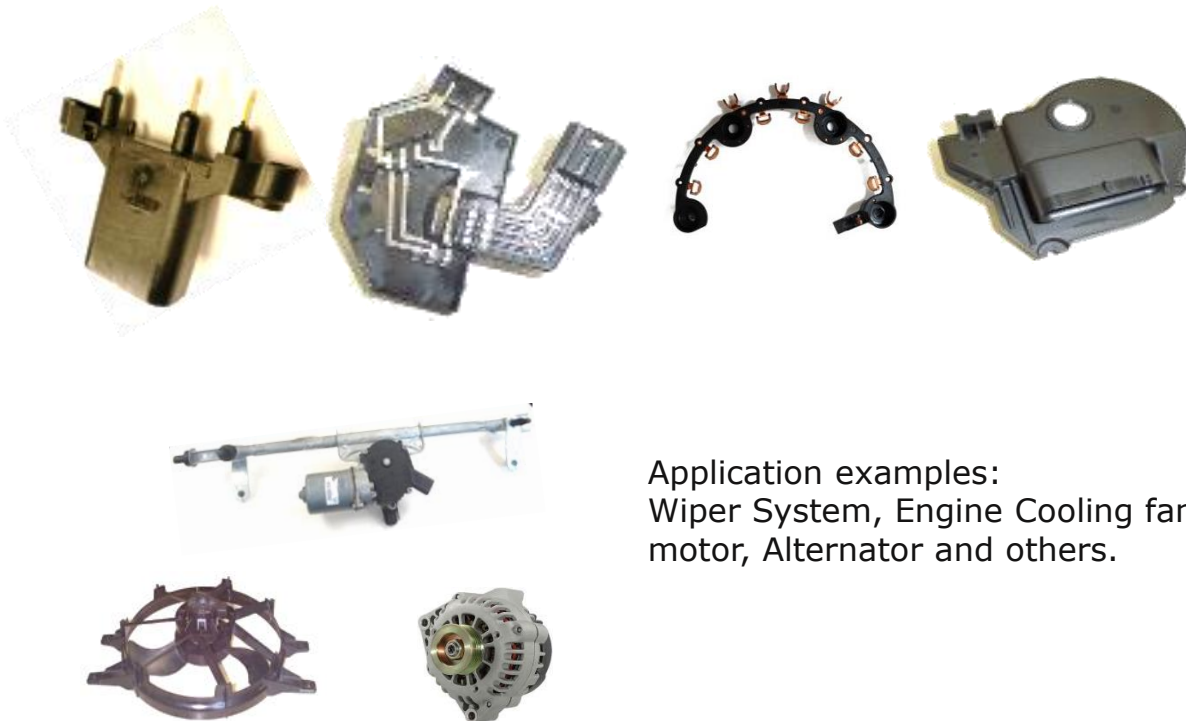


Application examples:
Gasoline Pump, Sunroof Components

Functional / Insert Molding

Manual Insert Molding

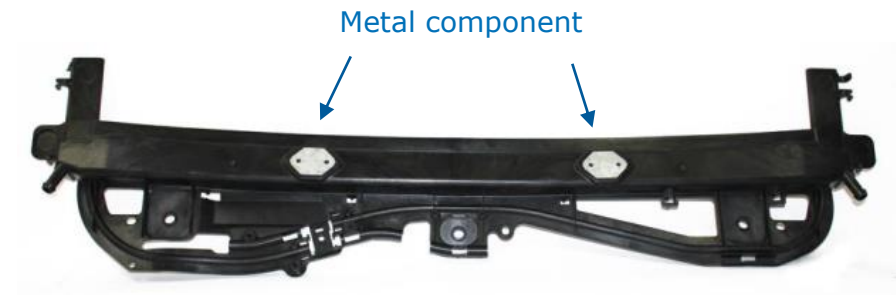
Nissha PMX is experienced on the manufacture of insert molded components with Rotary Machines from 80-300 Ton, thru the manual insertion of subcomponents into the tool to manufacture a plastic part with metal and other components integrated.



Application examples:
Wiper System, Engine Cooling fan motor, Alternator and others.

Automated Insert Molding

Nissha PMX is also experienced on the manufacture of insert molded components on Horizontal machines, assisted by Robots for automated insertion of metal components.

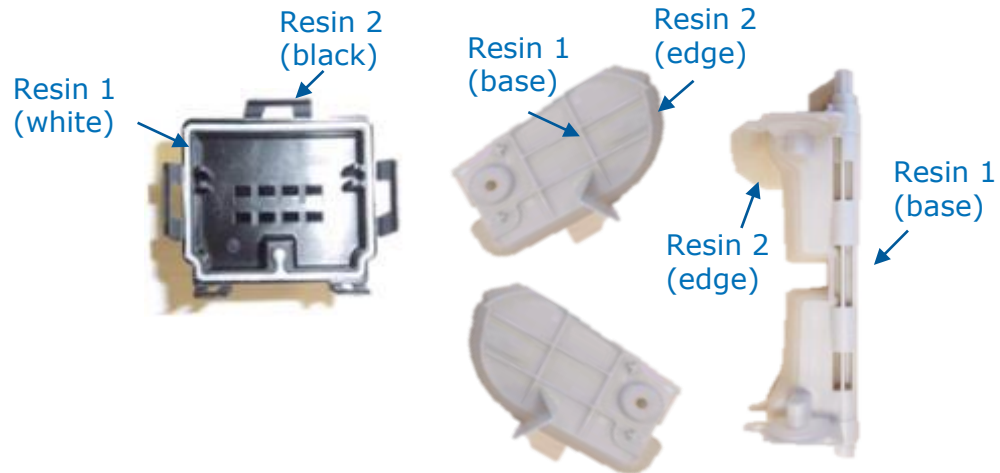


Application examples:
Mobility Sunroof frame large components.

Functional / Double injection

2 shot molding (2K)

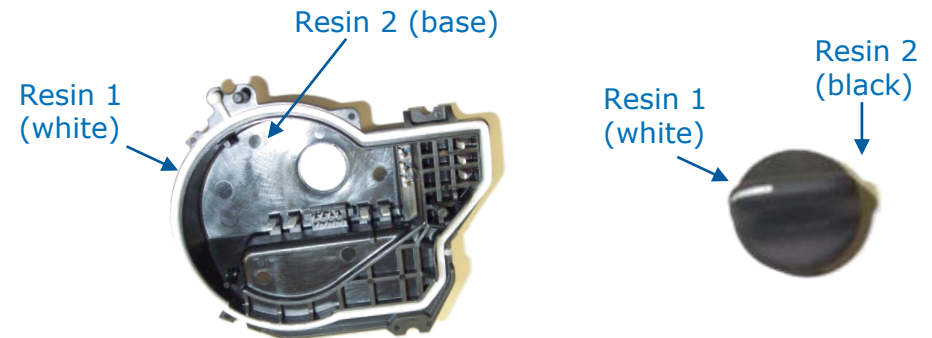
Nissha PMX is capable to produce parts with 2 resins simultaneously thru the 2 shot (2K) injection process. Machines available are 120 and 200 Ton.



Application examples:
Power window mechanism housing. HVAC module doors.

Overmold

Other way to integrate 2 resins into a component is thru the Overmold process. Nissha PMX has wide experience on the manufacture of overmold process thru Rotary and Horizontal machines.



Application examples:
Knobs for HVAC Control Unit.
Motor cover for Wiper System.

Functional / Integration

We have the flexibility to integrate plastic parts with subcomponents thru ASSEMBLY process. We manage the design and manufacture of the equipment, special fixture/tooling required for these additional operations. Upon part design, program annual volumes and other customer specific requirements we can offer the best solution.

Manual Assembly



Application examples:
HVAC module doors.

Semi-Automated Assembly



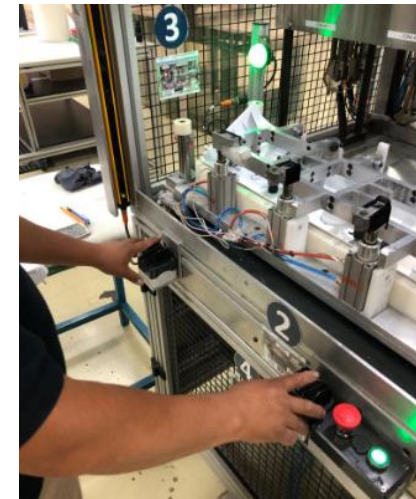
Application examples:
Mobility sunvisor

Ultrasonic Welding



Application examples:
Cupholder for Center Console, Arm rest

Heat Stake



Application examples:
Washer and Dryer Console

Integration mobility example

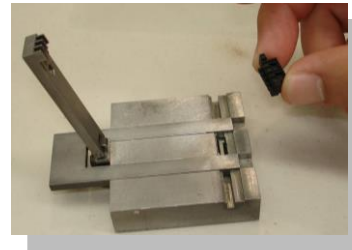
Nissha PMX Technologies has the experience on combining together different capabilities to offer value added components to our customers.
 In example, products requiring:
 Injection Molding + Assembly + Insert Molding + Hipot Testing + Continuity Testing + Overmolding + Leak testing.
 ALL IN ONE ROOF!

Multiple Operations

Subcomponent Injection



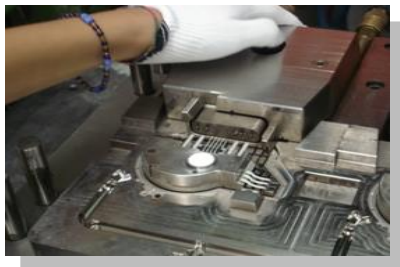
Subcomponent Assembly



Hipot / Continuity Testing



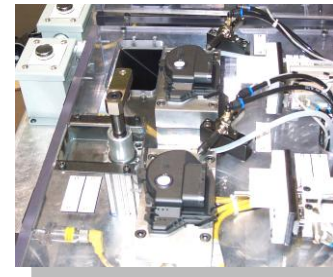
Insert Molding



Overmolding



Leak Testing

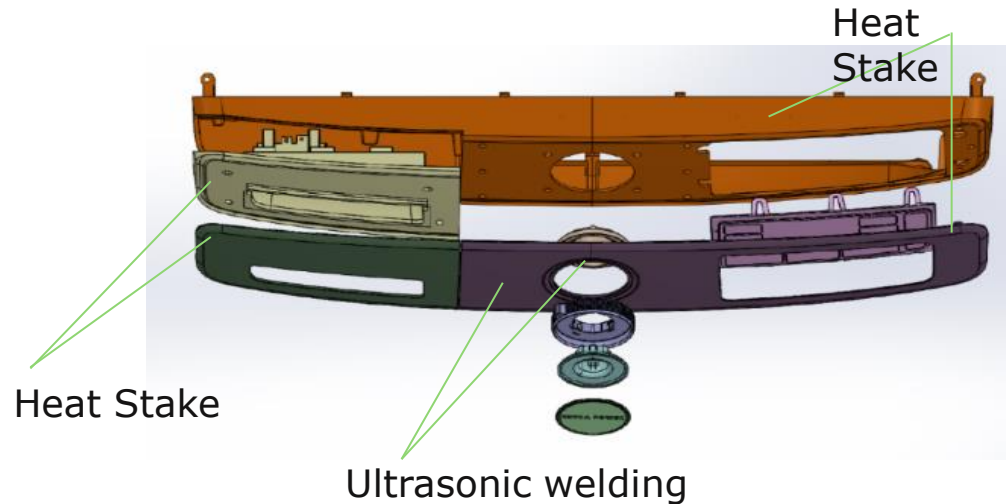
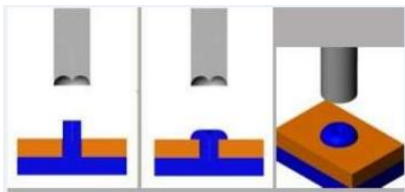


Application examples:
 Motor cover for Wiper System.

Integration appliance example

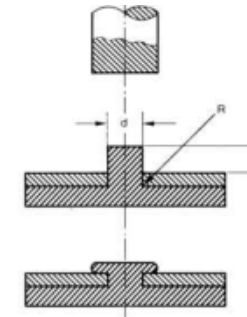
We also have the flexibility to integrate plastic parts with subcomponents thru integration processes such as Ultrasonic Welding and Heat Staking

Heat Stake



Application examples:
Washer and Dryer Console

Ultrasonic Welding

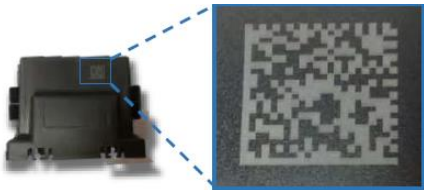


Functional / Special operations

We continuously increase our capability foot print by adding NEW operations that are special requirements for our customers in order to offer a value added product.
So instead a simple plastic part, we add special operations to the component such as:

Laser Marking

For Parts identification



Application examples:
In Mobility, Electronic Case unit for
Modules integrating PCB.

Annealing

For Plastic Parts
Parts exposed to high temperature for
dimensional alignment.



Application examples:
Evaporative Leak Check Module
applications.

Pad Print

Trasfer 2D image into 3D plastic
part thru tampo print process.



Application examples:
Appliance, washer/dryer consoles
Mobility, levers, knobs for interiors.

Functional / Testing

In addition, Nissha PMX is capable to perform special tests on the molded products. Either 100% in mass production or certain frequency as established by quality/part requirements. These tests can be done next to the machine or in our Metrology Laboratory.

Electrical Test

Hipot / Continuity



Leak Test

(Thru air or helium)



Laboratory test

(Push Test)



IMD Highlights

Product innovations | Black panel - Back lit IMD

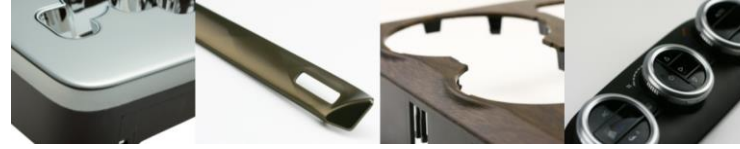
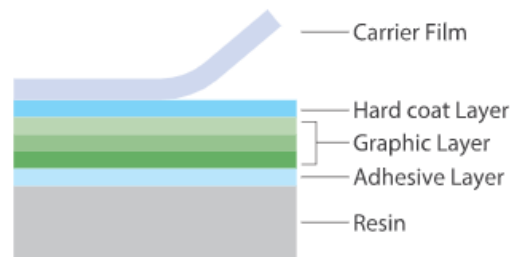


Decorative Solutions



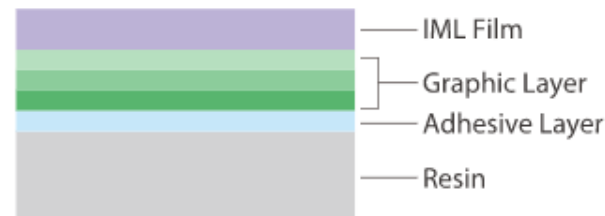
IMD

In Mold Decoration



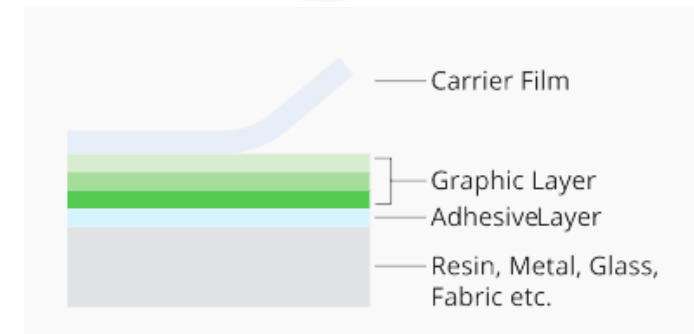
IML

In Mold Labeling



HT

Heat Transfer



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